

**CENTER FOR DRUG EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

21-749

21-751

CHEMISTRY REVIEW(S)

NDA 21-749

Pentetate Calcium Trisodium Injection

NDA 21-751

Pentetate Zinc Trisodium Injection

CHEMISTRY DIVISION DIRECTOR REVIEW

Applicant:

Hameln Pharmaceuticals, GmbH
Langes Field 13
31789 Hameln, Germany

Indication: Treatment for known or suspected internal contamination with Pu, Am, or Cu to increase the rate of elimination

Presentation: Colorless sealed ampoules, 1 g/5 mL fill

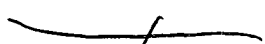
EER Status: Acceptable 22_JUN_2004

Consults: DMETS – Tradename: none
Statistics – none
EA – no consult - waiver requested – granted
Microbiology – acceptable 30-JUN-2004

Phase IV Commitments: No CMC Phase IV Commitments

The original NDA was received 06-APR-2004

The DTPA drug substances are manufactured by:


Manufacturing and controls information was reviewed in DMF ~ The DMF is acceptable. The drug substance is USP – complies with USP specifications - acceptable. A re-test period of - years was requested, and is supported by the established -year expiry extant at ~. The stability testing protocol is considered adequate.

Conclusion

Drug substance is satisfactory.

The **drug products** are the Ca and Zn complexes of DTPA formed in situ during drug product manufacture.

Manufacturer:

Hameln Pharmaceuticals, GmbH
Langes Field 13
31789 Hameln, Germany

The Ca or Zn DTPA complexes are formed in situ and pH adjusted to produce isotonic solutions of the drug substances. The manufacturing method is a simple _____ and ampoule sealing operation. Three demonstration batches were produced. Adequate in-process controls are in place. The sterility assurance data package was considered acceptable by the Microbiology staff.

The proposed regulatory specifications are acceptable (including impurities). Very limited stability data were submitted (_____) however it is considered sufficient to grant a 2 year tentative expiry. The firm accepted this in a TCon on 8/11/2004. Further, a commitment was made to withdraw any batches falling outside specification. The stability testing protocol is considered adequate. The established name for the Ca complex is USAN, however the Zn complex is not USAN – the firm has agreed (above cited TCon) to obtain a USAN designation.

Labeling is acceptable.

The overall Compliance recommendation is acceptable as of 22-JUN-2004.

Conclusion

Drug product is acceptable.

Overall Conclusion

From a CMC perspective the applications are recommended for approval.

Eric P Duffy, PhD
Director, DNDC II/ONDC

**This is a representation of an electronic record that was signed electronically and
this page is the manifestation of the electronic signature.**

/s/

Eric Duffy
8/11/04 11:28:31 AM
CHEMIST



NDA 21-749

Pentetate Calcium Trisodium Injection)

**Hameln Pharmaceuticals GmbH.
Langes Field 13
31789 Hameln
Germany**

**Ravindra K. Kasliwal, Ph.D.
Division of Medical Imaging and Radiopharmaceutical Drug
Products**



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Chemistry Review Data Sheet

1. NDA 21-749
2. REVIEW #: 1
3. REVIEW DATE: 28-Jun-2004, Revised – 20-Jul-2004
4. REVIEWER: Ravindra K. Kasliwal, Ph.D.
5. PREVIOUS DOCUMENTS: None
6. SUBMISSION(S) BEING REVIEWED:

Submission(s) ReviewedDocument Date

Original

06-Apr-2004

Amendment (BZ)

14-May-2004

Amendment (BC)

11-Jun-2004

Amendment (BL)

17-Jun-2004

Amendment (BZ)

28-Jun-2004

Amendment (BC)

09-Jul-2004

7. NAME & ADDRESS OF APPLICANT:

Name: Hameln Pharmaceuticals GmbH

Address: Langes Geld 13, 31789 Hameln, GERMANY

Representative: Helen M Ribbens, B & H Consulting Services Inc.
55 North Gaston Avenue, Somerville NJ 08876

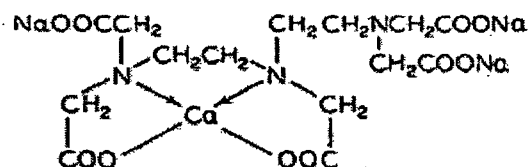
Telephone: Company: +49-5151-5810
U.S. Agent: (908) 704-1691

8. DRUG PRODUCT NAME/CODE/TYPE:

- a) Proprietary Name: _____ TM (company does not want to use this in labeling)
- b) Non-Proprietary Name (USAN): Pentetate Calcium Trisodium
- c) Code Name/# (ONDC only): Ca-DTPA
- d) Chem. Type/Submission Priority (ONDC only):
 - Chem. Type: 2
 - Submission Priority: P

Chemistry Review Data Sheet

9. LEGAL BASIS FOR SUBMISSION: 505 (b) (2) (Referenced to the Federal Register notice, Vol. 68, No. 178, page 53984)
10. PHARMACOL. CATEGORY: Chelating Agent (Internal Radio-decontamination)
11. DOSAGE FORM: Injection
12. STRENGTH/POTENCY: 1000 mg (200 mg/mL)
13. ROUTE OF ADMINISTRATION: Intravenous or Inhalation
14. Rx/OTC DISPENSED: ☒ Rx ☐ OTC
15. SPOTS (SPECIAL PRODUCTS ON-LINE TRACKING SYSTEM):
☐ SPOTS product – Form Completed
☒ Not a SPOTS product
16. CHEMICAL NAME, STRUCTURAL FORMULA, MOLECULAR FORMULA, MOLECULAR WEIGHT:



NOTE:	Following information was extracted from USP Dictionary of USAN and International Drug Names:
Molecular Info	C ₄₄ H ₁₀₄ CaN ₃ Na ₃ O ₁₀ 497.35.
Chemical Name	[Calcium Trisodium Pentetate is INN and BAN.] (1) Calciate(3-), [N,N-bis[2-[bis(carboxymethyl)amino]ethyl]glycinato(5-)]-, trisodium; (2) Trisodium [N,N-bis[2-[bis(carboxymethyl)amino]ethyl]glycinato(5-)]calciate(3-).
CAS Numbers	CAS-12111-24-9; CAS-67-43-6 [pentetic acid].
Category	Chelating agent (plutonium).
Code	◆NSC-34249
Designations	

17. RELATED/SUPPORTING DOCUMENTS:

A. DMFs:



CHEMISTRY REVIEW



Chemistry Review Data Sheet

DMF #	TYPE	HOLDER	ITEM REFERENCED	CODE ¹	STATUS ²	DATE REVIEW COMPLETED	COMMENT
—	II	—	Pentetic acid —	1	Adequate for this NDA	25-Jun-04	Some information is requested to be updated in the DMF

¹ Action codes for DMF Table:

1 – DMF Reviewed.

Other codes indicate why the DMF was not reviewed, as follows:

2 – Type I DMF

3 – Reviewed previously and no revision since last review

4 – Sufficient information in application

5 – Authority to reference not granted

6 – DMF not available

7 – Other (explain under "Comments")

² Adequate, Inadequate, or N/A (There is enough data in the application, therefore the DMF did not need to be reviewed)

B. Other Documents:

DOCUMENT	APPLICATION NUMBER	DESCRIPTION
NDA	N 21-751	Parallel application for Zn-DTPA
IND	—	—
IND	I 4,041	—
Federal Register	Vol. 68, No. 178, pp 53984	FDA's federal register notice asking applicants to apply.

18. STATUS:

ONDC:

CONSULTS/ CMC RELATED REVIEWS	RECOMMENDATION	DATE	REVIEWER
Biometrics	Not Applicable		
EES	Acceptable	15-Jul-2004	Office of Compliance
Pharm/Tox	Not Applicable		
Biopharm	Not Applicable		
LNC	Not Applicable		
Methods Validation	Package submitted – FDA method validation pending	28-Jun-2004	Ravindra K. Kasliwal, Ph.D.
ODS	The name — is acceptable by ODS.	02-Jul-2004	Alina R. Mehmud, R.Ph.
EA	Acceptable categorical exclusion claim.	28-Jun-2004	Ravindra K. Kasliwal, Ph.D.
Microbiology	Approval	02-Jul-2004	Brian Reily, Ph.D.

Reviewer's comment: Although the name is acceptable to ODS, the division had some concerns over the name. Since then the applicant has decided to just go with the established name.



The Chemistry Review for NDA 21-749

The Executive Summary

I. Recommendations

A. Recommendation and Conclusion on Approvability

The application is recommended for approval action for manufacturing and controls under section 505 of the Act. All manufacturing facilities are currently in acceptable GMP compliance. The company should be told that the currently approve expiration dating period for the product is _____

B. Recommendation on Phase 4 (Post-Marketing) Commitments, Agreements, and/or Risk Management Steps, if Approvable

There are no phase 4 commitments recommended from a CMC point of view.

II. Summary of Chemistry Assessments

A. Description of the Drug Product(s) and Drug Substance(s)

The product contains pentetic acid drug substance which is intended to give, in situ, pentetate calcium trisodium in the finished drug product. The finished drug product is supplied in a colorless 5 mL sealed ampoule as a clear colorless solution. _____ the drug product contains 158.17 mg pentetic acid, 40.24 mg calcium carbonate _____ which are intended to provide an equivalent of 200 mg of pentetate calcium trisodium. Additionally, the drug product also contains _____ NaOH (used for pH adjustment) and _____ of water for injection _____ Each ampoule contains 5 mL total volume as a ready to use product.

B. Description of How the Drug Product is Intended to be Used

The drug product is indicated for treatment of patients with known or suspected internal contamination with plutonium, americium, or curium to increase the rate of elimination. The drug product is intended for intravenous administration either directly as intravenous push over 3-4 minutes (1 gram in 5 ml volume) or by intravenous infusion diluted in 100 – 250 mL of 5% dextrose (D₅W), Ringer's lactate or Normal saline. In patients where the contamination has occurred only through inhalation, the product may be administered through nebulized inhalation (1:1 dilution with saline) as an alternate route of administration. A maximum initial loading dose of 1 gram is indicated, with subsequent maintenance dose of 1.0 gram / day administered intravenously (for pediatric (<12 years)patients a dose of 14 mg/kg is indicated with a maximum dose of 1.0 gram/day). The drug product is to be stored between 15-30°C (59-86°F).



CHEMISTRY REVIEW



Executive Summary Section

C. Basis for Approvability or Not-Approval Recommendation

The applicant has submitted data to sufficiently demonstrate control over the identity, purity quality of the drug substance and over identity, strength, purity and quality of the finished drug product. The controls to assure quality of the product are acceptable. The facilities have been inspected and have been found to be in acceptable cGMP compliance (EES date 15-Jul-2004).

III. Administrative

A. Reviewer's Signature

Ravindra K. Kasliwal, Ph.D.

B. Endorsement Block

Kasliwal/28-Jun-2004/20-Jul-2004

Leutzinger/Date –see electronic review signoff sheet

Stewart/Date – see electronic review sheet

C. CC Block

31 page(s) have been
removed because it
contains
trade secret
and/or
confidential information
that is not disclosable

**This is a representation of an electronic record that was signed electronically and
this page is the manifestation of the electronic signature.**

/s/

Ravi Kasliwal
7/22/04 09:01:16 AM
CHEMIST

Eldon Leutzinger
7/22/04 10:27:04 AM
CHEMIST
I concur with the conclusions and recommendation

NDA 21-751

Pentetate Zinc Trisodium Injection

**Hameln Pharmaceuticals GmbH.
Langes Field 13
31789 Hameln
Germany**

**Ravindra K. Kasliwal, Ph.D
DNDC-II, ONDC
Division of Medical Imaging and Radiopharmaceutical Drug
Products**

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Chemistry Review Data Sheet

1. NDA 21-751
2. REVIEW #: 1
3. REVIEW DATE: 28-Jun-2004; Revised 20-July-2004
4. REVIEWER: Ravindra K. Kasliwal, Ph.D.
5. PREVIOUS DOCUMENTS: None
6. SUBMISSION(S) BEING REVIEWED:

<u>Submission(s) Reviewed</u>	<u>Document Date</u>
Original	06-Apr-2004
Amendment (BZ)	14-May-2004
Amendment (BC)	11-Jun-2004
Amendment (BZ)	28-Jun-2004
Amendment (BC)	09-Jul-2004

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Name: Hameln Pharmaceuticals GmbH

Address: Langes Geld 13, 31789 Hameln, GERMANY

Representative: Helen M Ribbens, B & H Consulting Services Inc.
55 North Gaston Avenue, Somerville NJ 08876

Telephone: Company: +49-5151-5810
U.S. Agent: (908) 704-1691

8. DRUG PRODUCT NAME/CODE/TYPE:

- a) Proprietary Name: _____ (company does not want to use this in labeling)
- b) Non-Proprietary Name (USAN): No USAN name
(FDA assigned name: Pentetate zinc trisodium)
- c) Code Name/# (ONDC only): Zn-DTPA
- d) Chem. Type/Submission Priority (ONDC only):
 - Chem. Type: 1
 - Submission Priority: P

Chemistry Review Data Sheet

9. LEGAL BASIS FOR SUBMISSION: 505 (b) (2) (Referenced to the Federal Register notice, Vol. 68, No. 178, page 53984)

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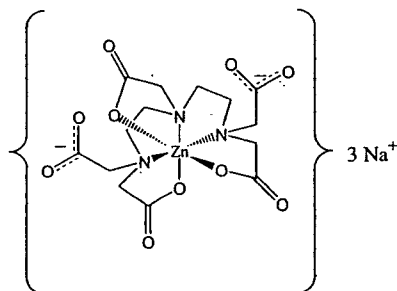
14. Rx/OTC DISPENSED: X Rx OTC

15. SPOTS (SPECIAL PRODUCTS ON-LINE TRACKING SYSTEM):

 SPOTS product – Form Completed

 X Not a SPOTS product

16. CHEMICAL NAME, STRUCTURAL FORMULA, MOLECULAR FORMULA, MOLECULAR WEIGHT:



Name: Pentetate Zinc Trisodium
Molecular Formula: $\text{Na}_3\text{ZnC}_{14}\text{H}_{18}\text{N}_3\text{O}_{10}$
Molecular Weight: 522.7 Daltons

17. RELATED/SUPPORTING DOCUMENTS:

A. DMFs:

DMF #	TYPE	HOLDER	ITEM REFERENCED	CODE ¹	STATUS ²	DATE REVIEW COMPLETED	COMMENTS
<u> </u>	II	<u> </u>	Pentetic acid <u> </u>	1	Adequate for this NDA	25-Jun-2004	Some information is requested to be updated in the DMF

Chemistry Review Data Sheet

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B. Other Documents:

DOCUMENT	APPLICATION NUMBER	DESCRIPTION
NDA	N 21-749	Parallel application for Ca-DTPA
IND	I 4,041	
Federal Register	Vol. 68, No. 178, pp 53984	FDAs federal register notice asking applicants to apply.

18. STATUS:

ONDC:

CONSULTS/ CMC RELATED REVIEWS	RECOMMENDATION	DATE	REVIEWER
Biometrics	Not applicable		
EES	Acceptable	15-Jul-2004	Office of Compliance
Pharm/Tox	Not applicable		
Biopharm	Not applicable		
LNC	Not applicable		
Methods Validation	Pending	28-Jun-2004	Ravindra K. Kasliwal, Ph.D.
ODS	The Name : ——— is acceptable by ODS.*	25-Jun-2004	Alina R. Mehmud, R.Ph.
EA	Acceptable categorical exclusion claim.	28-Jun-2004	Ravindra K. Kasliwal, Ph.D.
Microbiology	Approval	25-Jun-2004	Brian Reily, Ph.D.

***Reviewer's comment:** Although the name is acceptable to ODS, the clinical division had some concerns over the name. Since then the applicant has decided to just go with the established name.



The Chemistry Review for NDA 21-751

The Executive Summary

I. Recommendations

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B. Description of How the Drug Product is Intended to be Used

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CHEMISTRY REVIEW



Executive Summary Section

C. Basis for Approvability or Not-Approval Recommendation

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III. Administrative

A. Reviewer's Signature

Ravindra K. Kasliwal, Ph.D.

B. Endorsement Block

Kasliwal/28-June 2004/20-Jul-2004

Leutzinger/Date - see electronic review signoff sheet

Stewart/Date - see electronic review sheet

C. CC Block

See electronic review.

30 page(s) have been
removed because it
contains
trade secret
and/or
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that is not disclosable

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this page is the manifestation of the electronic signature.**

/s/

Ravi Kasliwal
7/22/04 08:58:16 AM
CHEMIST

Eldon Leutzinger
7/22/04 01:05:51 PM
CHEMIST
I concur with the conclusions and recommendation

ESTABLISHMENT EVALUATION REQUEST

DETAIL REPORT

Application: NDA 21749/000 Action Goal:
Stamp: 06-APR-2004 District Goal: 07-DEC-2004
Regulatory Due: 28-OCT-2004 Brand Name: _____
Applicant: HAMELN PHARMS Estab. Name: (PENTETATE CAL
CIUM TRIS
31789 Generic Name: CA-DTPA (PENTET
ATE
HAMELN, , GM CALCIUM TRISOD
IUM INJE
Priority: P Dosage Form: (INJECTION)
Org Code: 160 Strength: 1 G/AMPOULE; 2
00 MG/ML

Application Comment: THIS IS A COUNTER TERRORISM PRODUCT OF EXTREMELY HIGH
IMPORTANCE.
Y FOR
THE
E COUNTER
. KASLIWAL
HAMELN HAS INDICATED THAT THE FACILITIES WILL BE READ
INSPECTION AT THE END OF APRIL 2004. WE REQUEST THAT
FACILITIES BE INSPECTED SOON THEREAFTER BECAUSE OF TH
TERRORISM NATURE OF THE PRODUCT. (on 02-MAR-2004 by R
(HFD-160) 301-827-7494)

Contacts: R. KASLIWAL (HFD-160) 301-827-7494 , Revie
w Chemist
E. LEUTZINGER (HFD-160) 301-827-7510 , Team
Leader

Overall Recommendation: ACCEPTABLE on 15-JUL-2004 by S. FERGUSON (HFD-322)
) 301-827-9009

Establishment: CFN _____ FEI _____

DMF No: AADA:

Responsibilities: _____

Profile: CSN OAI Status: NONE

Milestone Name Creator	Date	Type	Insp. Date	Decision & Reason
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SUBMITTED TO OC KASLIWALR	02-MAR-2004			
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SUBMITTED TO DO DAMBROGIOJ	02-MAR-2004	GMP		
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ASSIGNED INSPECTION T ADAMSS	08-MAR-2004	GMP		
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INSPECTION SCHEDULED ADAMSS	07-MAY-2004		16-JUN-2004	
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INSPECTION PERFORMED ADAMSS	16-JUN-2004		16-JUN-2004	
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RECOMMENDATION ADAMSS	15-JUL-2004			ACCEPTABLE
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INSPECTION

BASED ON REVIEW OF 483 AND INVESTIGATOR'S RECOMMENDATION. AWAITING EIR AND FIR
M'S

RESPONSE

OC RECOMMENDATION
FERGUSONS

15-JUL-2004

ACCEPTABLE

DISTRICT RECOMMENDATI

ON

Establishment: CFN 9611057 FEI 3002807877
PHARMA HAMELN GMBH
LANGES FELD 30 - 38
HAMELN, , GM

ESTABLISHMENT EVALUATION REQUEST

DETAIL REPORT

Application: NDA 21751/000

Action Goal:

Stamp: 05-APR-2004

District Goal: 04-FEB-2005

Regulatory Due: 28-OCT-2004

Brand Name: _____

Applicant: PHARMA HAMELN GMBH
C TRISODI

Estab. Name: (PENTETATE ZIN

HAMELN, , GM
DISODIUM

Generic Name: PENTETATE ZINC

P

Priority: 160

Dosage Form: (INJECTION)

Org Code:
00 MG/ML

Strength: 1 G/AMPOULE; 2

Application Comment:
IMPORTANCE.

THIS IS A COUNTER TERRORISM PRODUCT OF EXTREMELY HIGH

Y FOR

HAMELN HAS INDICATED THAT THE FACILITIES WILL BE READ

THE

INSPECTION AT THE END OF APRIL 2004. WE REQUEST THAT

E IMPORTANT

FACILITIES BE INSPECTED SOON THEREAFTER BECAUSE OF TH

004 by R.

COUNTER TERRORISM NATURE OF THE PRODUCT. (on 02-MAR-2

KASLIWAL (HFD-160) 301-827-7494)

Contacts:
w Chemist

R. KASLIWAL (HFD-160)

301-827-7494 , Revie

E. LEUTZINGER (HFD-160)

301-827-7510 , Team

Leader

ACCEPTABLE on 15-JUL-2004 by S. ADAMS (HFD-322) 3

CFN

FEI

AADA:

Responsibilities:

CSN

OAI Status: NONE

INSPECTION

BASED ON REVIEW OF 483 AND INVESTIGATOR'S RECOMMENDATION. AWAITING EIR AND FIR M'S

RESPONSE.

OC RECOMMENDATION
ADAMSS

15-JUL-2004

ACCEPTABLE

DISTRICT RECOMMENDATI

C

Establishment: CFN 9611057 FEI 3002807877

PHARMA HAMELN GMBH

LANGES FELD 30 - 38

HAMELN, , GM